CLAIM LISTING

- 1. (Currently amended) A thermostat fan and boiler timer comprising a microprocessor, an AC/DC converter, a zero crossing detector, a switching means, and a user interface, wherein the timer connects directly to an existing thermostat without the need for rewiring any [of the] existing thermostat connections.
- 2. (Original) The thermostat fan and boiler timer of claim 1, wherein the timer operates without an external power source.
- 3. (Currently amended) The thermostat fan and boiler timer of claim 1, further comprising interchangeable leads that can be connected on either side of [the] <u>a</u> fan switch.
- 4. (Currently amended) The thermostat fan and boiler timer of claim 1, further comprising interchangeable leads that can be connected on either side of [the] <u>a</u> thermostat switch terminal[s] of a boiler system.
- 5. (Original) The thermostat fan and boiler timer of claim 1, wherein a user can program the duration and interval of fan cycles.
- 6. (Original) The thermostat fan and boiler timer of claim 1, wherein a user can program the duration and interval of boiler cycles.
- 7. (Original) The thermostat and boiler timer of claim 1, wherein the timer causes periodic cycling of a heating system fan/blower.
- 8. (Original) The thermostat and boiler timer of claim 1, wherein the timer causes periodic cycling of a boiler.
- 9. (Original) The thermostat and boiler timer of claim 1, wherein the user interface comprises an LCD display and keypad.

- 10. (Original) The thermostat boiler and timer of claim 1, wherein the user interface comprises two LEDs and one switch.
- 11. (Original) The thermostat fan and boiler timer of claim 1, wherein the timer can be programmed with a single button.
- 12. (Original) The thermostat fan and boiler timer of claim 1, wherein the timer determines both an interval between fan cycles and a duration of fan cycles, and both the interval and duration can be programmed with a single button.
- 13. (Original) The thermostat fan and boiler timer of claim 1, wherein the timer determines both an interval between boiler cycles and a duration of boiler cycles, and both the interval and duration can be programmed with a single button.
- 14. (Original) The thermostat fan and boiler timer of claim 1, wherein the timer includes three programming variables, and all three programming variables can be programmed with a single button.
- 15. (Original) The thermostat fan and boiler timer of claim 14, wherein the three programming variables are interval, duration and variable timing.
- 16. (Original) The thermostat fan and boiler timer of claim 1, wherein the switching means is a triac.
- 17. (Original) The thermostat fan and boiler timer of claim 1, wherein the switching means is an electro-mechanical switch, and further comprising a battery to power the microprocessor when the switch is closed.
- 18. (Original) A method of circulating heated air throughout a building or structure using the thermostat fan and boiler timer of claim 1.

19. (Original) A method of circulating hot water throughout a heating system using the thermostat fan and boiler timer of claim 1.